

Mass.: DEPARTMENT OF INDUSTRIAL ACCIDENTS

40th,
1952 Annual Report

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THE COMMONWEALTH OF MASSACHUSETTS

Department of Industrial Accidents
18 Tremont Street
Boston, Massachusetts

April 15, 1955

To the Honorable Senate and House of Representatives:

The Department of Industrial Accidents has the honor to transmit its fortieth annual report.

Respectfully,

INDUSTRIAL ACCIDENT BOARD

Eugene H. Giroux, Chairman
Paul A. D'Agostino
Hugh J. Golden, Jr.
Thomas W. Bowe
Elias J. Kolofolias
Mary F. Hicks
Charles J. Skladzien
Anthony D. Pompeo
Michael DeMarco

Edward P. Doyle, Secretary

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ATTENTION

In the year 1952, there were 1,405 tabulatable injuries to employees of the Commonwealth of Massachusetts. These injuries are included in the various frequency tables for that year, namely Table III through Table XV.

Table II, which deals with payments made under the Act, reflects the money expended by insurance companies, self-insured employers, and the various governmental agencies, with the exception of the payments made to, or for the benefit of, the above-mentioned 1,405 injured employees of the Commonwealth.

As of the date of this report, the Division of Industrial Accidents has been unable to secure these figures from the Supervisor of Public Employees' Compensation.

FORTIETH ANNUAL REPORT
of the
DEPARTMENT OF INDUSTRIAL ACCIDENTS

The Department of Industrial accidents presents herewith its fortieth annual report. This report contains the facts and figures, in summarized form, which comprise the Department's experience in the administration of the Workmen's Compensation Law (General Laws, Chapter 152) for the year January 1, 1952 to December 31, 1952.

In the year ending December 31, 1952, the reported injuries totalled 262,522, of which 59,388, or 22.6 per cent, were tabulatable injuries. In 1951 the reported injuries totalled 279,548, of which 62,012 were tabulatable injuries, being 22.2 per cent of the total in that year.

The severity of injuries, as measured by the plan for weighting time loss due to injuries, shows a decrease of 592,702 days as compared with 1951.

A synopsis of the subjects covered in the current report follows:

The Fortieth Year of the Law. This chapter covers in condensed form the number of tabulatable injuries; total reported injuries; aggregate time lost; a condensed statement of combined payments by insurance companies and self-insured employers operating under the Act, and various governmental units; extent of incapacity in certain cases; and dependency, in brief, in fatal cases.

Summary of Accident Experience. This chapter explains the various tables found in the Appendix, with a brief analysis of each, and should be referred to for an understanding of the tables used.

Maximum Payment Cases. This chapter contains a brief review of the non-fatal cases in which the maximum amount of compensation payable under ss. 34 and 35, or either, has been made, and of those in which permanent total disability compensation is being continued under s. 34A.

Dependency in Fatal Cases not Insured under the Act. This chapter deals with particular reference to the condition of dependents in fatal cases where the injured employees were not insured under the provisions of the law. The statements represent an analysis based on Table XII in the Appendix of this report.

Medical Division. This chapter contains a brief summary of the work of this division with some statistical data for the past year.

THE FORTIETH YEAR OF THE ACT

There were 262,522 reports of injury filed with the Department of Industrial Accidents for the year January 1, 1952 to December 31, 1952, as compared with 279,548 in 1951. Of these, 59,388 (2624 less than in 1951) were tabulatable injuries (injuries causing the loss of at least one day or one shift, usually eight hours), including deaths, permanent total, permanent partial, and temporary total disabilities. Death resulted in 210 of these cases, 75 involved permanent total disability, 1,722 permanent partial disability, and 57,381 temporary total disability.

The reports from insurance companies, self-insured employers, and the various governmental units (not including the Commonwealth of Massachusetts) show that the payments made and to be made on account of injuries occurring in this period total \$35,523,685.36 (\$2,238,829.80 more than in 1951) and are classified as follows: Medical \$10,994,920.08; fatal, \$2,218,650.07; non-fatal compensation (including payments made to dependents in these cases under s. 35a of the Workmen's Compensation Act), \$22,140,913.21, and other statutory payments \$169,202.00.

The weighted time loss charged to all injuries is 5,005,370 days, distributed as follows: deaths, 25.1 per cent; permanent total disability, 9.0 per cent; permanent partial disability, 25.3 per cent; and temporary total disability, 40.6 per cent.

There were 210 fatal cases, which, for this tabulation, were considered as coming within the meaning of the law. This is a decrease of 53 cases as compared with the year 1951. Total dependency was involved in 184 cases, 336 persons being so dependent; partial dependency was involved in 7 cases, 8 persons being so dependent; and there was no dependency in 19 cases. There was one non-insured fatal case this year.

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SUMMARY OF ACCIDENT EXPERIENCE

TABLE I. TOTAL TABULATABLE INJURIES, BY INDUSTRIES AND
CASES INSURED, SELF-INSURED, AND NOT-INSURED

Total Tabulatable Injuries, By Status of Employer

<u>Status of Employer</u>	<u>Number of Cases</u>	<u>Per Cent of Total</u>
Insured	54,152	91.19
Self-Insured	5,222	8.79
Not-Insured	<u>14</u>	<u>.02</u>
Totals	59,388	100.00

The percentages for the above classifications for the year 1951 were: insured cases 92.08 per cent; self-insured 7.88 per cent; and not-insured .04 per cent.

TABLE II. INSURANCE TRANSACTIONS UNDER THE ACT.

This table was compiled from figures furnished the Board upon its request, under section 63 of the Act, by insurance companies and self-insured employers licensed under the Act, and from the Metropolitan District Commission, and the counties, cities, towns, and districts which have accepted the provisions of the Act. This table does not include payments made to employees of the Commonwealth of Massachusetts.

During the year ending December 31, 1952, a total payment of \$35,523,685.36 was reported, the average cost per case being \$198.21 as compared with \$177.67 in 1951. The governmental units which come under the Act reported a payment of \$681,802.83 to laborers, workmen and mechanics, and to their dependents, and to the dependents of fatally injured employees, as compared with \$1,187,703.59 in 1951. It must be remembered, however, that the 1951 figure included payments made to employees of the Commonwealth of Massachusetts while the amount of the 1952 payments to state employees were not available. Insurers paid \$32,125,438.61 as compared with \$29,152,361.83 in 1951; and self-insurers paid \$2,716,443.92 as compared with \$2,944,790.14 in 1951.

It should be noted that a number of political subdivisions insure directly with private carriers in lieu of accepting statutes enabling payment directly by such subdivisions.

Payments Made and Outstanding

<u>Type of Payment</u>	<u>Amount</u>	<u>Per Cent</u>
Medical, for all cases	\$ 10,994,920.08	31.0
Fatal dependency compensation	2,218,650.07	6.2
Non-fatal disability compensation (including s.35A payments)	22,140,913.21	62.3
Other statutory payments	<u>169,202.00</u>	<u>0.5</u>
Totals	\$ 35,523,685.36	100.0

Based on the payments made and estimated outstanding and the cases to which they apply, the average cost per case for the several groups is as follows:

Average Cost Per Specified Case

<u>Type of Payment</u>	<u>No. of Cases</u>	<u>Average Cost</u>
Medical, for all cases	179,222	\$ 61.35
Fatal dependency compensation	209	10,615.55
Non-fatal disability compensation (including s.35A payments)	38,803	570.60
Other statutory payments	233	726.19

TABLE II. Payments Made and Outstanding Under the Act, Filed by Insurance Companies, Self-Insured Employers, and the Various Governmental Units, (excluding the Commonwealth of Massachusetts) on Injuries Reported for the Year January 1, 1952 to December 31, 1952.

PAYMENTS BY NON-FATAL, FATAL AND OTHER STATUTORY BENEFITS

NON-FATAL CASES

Number of employees requiring medical service only.....	140,186	
Medical payments made.....		\$ 2,224,996.40
Medical payments outstanding.....		204,174.85
		<u>\$ 2,429,171.25</u>
 Number of employees requiring medical services only who received treatment under "contract medical".....	 179,637	
 Number of employees receiving compensation and treatment under "contract medical".....	 1,586	
Incapacity and specific compensation paid, including Ch.152, s.35A payments.....		\$ 393,903.96
Incapacity and specific compensation outstanding, including Ch.152, s.35A payments.....		105,348.50
		<u>\$ 499,252.46</u>
 Number of employees receiving both medical services and compensation.....	 37,217	
Medical payments made.....		\$ 4,639,944.36
Medical payments outstanding.....		3,831,461.59
		<u>\$ 8,471,405.95</u>
 Incapacity and specific compensation paid, including payments under Ch.152, s.35A.....		\$ 8,911,627.77
Incapacity and specific compensation outstanding, including Ch.152, s.35A payments.....		12,730,032.98
		<u>\$21,641,660.75</u>

Number of cases requiring neither payment of compensation nor medical..... 34,083

FATAL CASES

Number of fatal cases with total dependents..	198	
Compensation payments made.....		\$ 199,467.06
Compensation payments outstanding.....		1,432,039.01
Compensation payments outstanding in questioned liability cases.....		<u>543,044.00</u>
		\$2,174,550.07

Medical payments made.....		\$ 57,201.92
Medical payments outstanding.....		4,155.00
Medical payments outstanding in questioned liability cases.....		<u>25,402.00</u>
		\$ 86,758.92

Number of fatal cases with partial dependents	11	
Compensation payments made.....		\$ 10,410.00
Compensation payments outstanding.....		11,700.00
Compensation payments outstanding in questioned liability cases.....		<u>21,990.00</u>
		\$ 44,100.00

Medical payments made.....		\$ 1,508.00
Medical payments outstanding.....		368.00
Medical payments outstanding in questioned liability cases.....		<u>1,600.00</u>
		\$ 3,476.00

Number of fatal cases with no dependents.....	24	
Medical payments made.....		\$ 2,591.96
Medical payments outstanding.....		441.00
Medical payments outstanding in questioned liability cases.....		<u>1,075.00</u>
		\$ 4,107.96

OTHER STATUTORY PAYMENTS

Ch. 152, s33

Payments made.....		\$ 24,002.00
Payments outstanding.....		7,600.00
Payments outstanding in questioned liability cases.....		<u>29,850.00</u>
		\$ 61,452.00

Ch. 152, s. 65

Payments made.....	\$ 4,500.00
Payments outstanding.....	1,500.00
Payments outstanding in questioned liability cases.....	5,000.00
	<u>\$ 11,000.00</u>

Ch. 152, s. 65N

Payments made.....	\$ 35,750.00
Payments outstanding.....	13,000.00
Payments outstanding in questioned liability cases.....	48,000.00
	<u>\$ 96,750.00</u>

PAYMENTS BY MEDICAL, COMPENSATION AND OTHER STATUTORY BENEFITS

Total Number of Cases

Number of fatal cases reported.....	233
Number of non-fatal cases reported.....	<u>392,709</u>
	392,942

Medical Payments

Fatal Medical Payments

Payments made.....	\$ 61,301.88
Payments outstanding.....	4,964.00
Payments outstanding in questioned liability cases.....	28,077.00
	<u>\$ 94,342.88</u>

Non-Fatal Medical Payments

Payments made.....	\$ 6,864,940.76
Payments outstanding.....	4,035,636.44
	<u>\$10,900,577.20</u>

Fatal and Non-Fatal Medical Payments Combined

Payments made.....	\$ 6,926,242.64
Payments outstanding.....	4,040,600.44
Payments outstanding in questioned liability cases.....	28,077.00
	<u>\$10,994,920.08</u>

Compensation Payments

Fatal Compensation Payments

Payments made.....	\$ 209,877.06
Payments outstanding.....	1,443,739.01
Payments outstanding in questioned liability cases.....	565,034.00
	<u>\$ 2,218,650.07</u>

Non-Fatal Compensation Payments

Payments made, including Ch.152, s.35A payments.....	\$ 9,305,531.73
Payments outstanding, including Ch.152, s.35A payments.....	12,835,381.48
	<u>\$22,140,913.21</u>

Fatal and Non-Fatal Compensation Payments Combined

Payments made.....	\$ 9,515,408.79
Payments outstanding.....	14,279,120.49
Payments outstanding in questioned liability cases.....	565,034.00
	<u>\$24,359,563.28</u>

Other Statutory Payments

Payments made.....	\$ 64,252.00
Payments outstanding.....	22,100.00
Payments outstanding in questioned liability cases.....	82,850.00
	<u>\$ 169,202.00</u>

MEDICAL, COMPENSATION AND OTHER STATUTORY PAYMENTS COMBINED

Total payments made.....	\$16,505,903.43
Total payments outstanding.....	18,341,820.93
Total payments outstanding in questioned liability cases.....	675,961.00
	<u>\$35,523,685.36</u>

TABLE III. FREQUENCY OF INJURIES, BY INDUSTRIES AND EXTENT OF DISABILITY

This table indicates the number of deaths, permanent total disabilities, permanent partial disabilities, and temporary total disabilities.

In permanent total disabilities, the element of judgment based on experience must enter into classifying a part of the data. In rating injuries of this nature, the general principle by which severity is to be measured is based on economic loss to the community and on the loss of wages to the employee. Permanent total disability applies to every injury which permanently incapacitates the workman from performing any work continuously in a gainful occupation. The element of judgment must enter into the classification of the data because the statistics must be compiled before we can determine definitely whether an injured employee is ever going to be able to perform work again.

Permanent partial disabilities are all injuries less than permanent total which result in the loss of any member of the body or part thereof, or in the permanent impairment of any function, as included in the specific injury table.

Temporary total disabilities are those in which no permanent partial disability is involved.

Extent of Total Tabulatable Injuries

<u>Extent of Disability</u>	<u>Number of Cases</u>	<u>Per Cent</u>
Deaths	210	0.35
Permanent total disabilities	75	0.13
Permanent partial disabilities	1,722	2.90
Temporary total disabilities	<u>57,381</u>	<u>96.62</u>
Totals	59,388	100.00

The following table is a summary of the duration of disability in all cases in this classification:

Duration of Temporary Total Disabilities

<u>Disability Period</u>	<u>Number of Cases</u>	<u>Per Cent</u>
1 to 3 days	12,065	21.0
4 to 7 days	10,850	18.9
1 to 2 weeks	9,563	16.7
2 to 3 weeks	5,767	10.1
3 to 4 weeks	3,569	6.2
4 to 8 weeks	7,613	13.3
8 to 13 weeks	3,748	6.5
13 to 26 weeks	2,165	3.8
26 to 52 weeks	1,332	2.3
Over 1 year	<u>709</u>	<u>1.2</u>
Totals	57,381	100.0

It should be noted that in 22,915 or 39.9 per cent of the temporary total disability cases, the employee was not incapacitated for a period of more than seven days.

Total Tabulatable Injuries, by Industries and Extent of Disability
Including Percentage Distribution

Industry	Disabilities									
	Totals		Deaths		Permanent Total		Permanent Partial		Temporary Total	
	Num- ber	Per Cent	Num- ber	Per Cent	Num- ber	Per Cent	Num- ber	Per Cent	Num- ber	Per Cent
Trade	10,061	17.0	22	10.5	8	10.7	143	8.3	9,888	17.3
Iron and steel	7,773	13.1	14	6.7	3	4.0	343	19.9	7,413	12.9
Building trades	6,084	10.2	35	16.7	13	17.3	199	11.6	5,837	10.2
Miscellaneous	5,886	9.9	20	9.5	8	10.7	224	13.0	5,634	9.8
Domestic	4,059	6.8	24	11.4	4	5.3	78	4.5	3,953	6.9
Transportation, road, etc	3,600	6.1	25	11.9	8	10.7	67	3.9	3,500	6.1
Textiles	3,051	5.1	11	5.2	4	5.3	116	6.7	2,920	5.1
Food	2,777	4.7	6	2.8	2	2.7	64	3.7	2,705	4.7
Professional service	2,747	4.6	6	2.8	5	6.7	46	2.7	2,690	4.7
Leather	2,635	4.4	7	3.3	4	5.3	79	4.6	2,545	4.4
Express, trucking	1,966	3.3	7	3.3	1	1.3	41	2.4	1,917	3.3
Paper	1,737	2.9	5	2.4	2	2.7	61	3.5	1,669	2.9
Lumber	1,408	2.4	1	0.5	1	1.3	112	6.5	1,294	2.2
Clothing	1,031	1.7	4	1.9	1	1.3	15	0.9	1,011	1.8
Agriculture	869	1.5	4	1.9	1	1.3	17	1.0	847	1.5
Printing & bookbinding	745	1.3	4	1.9	-	-	36	2.1	705	1.2
Metals	661	1.1	1	0.5	2	2.7	33	1.9	625	1.1
Clay, glass, stone	557	0.9	6	2.8	3	4.0	9	0.5	539	0.9
Chemicals	541	0.9	2	1.0	2	2.7	13	0.7	524	0.9
Liquors	499	0.8	1	0.5	-	-	5	0.3	493	0.8
Others in transportation	271	0.5	-	-	1	1.3	6	0.3	264	0.5
Water transportation	157	0.3	2	1.0	-	-	1	0.1	154	0.3
Telephone & telegraph	116	0.2	-	-	-	-	3	0.2	113	0.2
Air transportation	98	0.2	1	0.5	-	-	1	0.1	96	0.2
Extraction of minerals	59	0.1	2	1.0	2	2.7	10	0.6	45	0.1
Totals	59,388	100.0	210	100.0	75	100.0	1,722	100.0	57,381	100.0

An analysis of the preceding table shows that:

Deaths: "Building trades" had the highest number of deaths, 35 or 16.7 per cent; followed by "Transportation, road, etc." with 25, or 11.9 per cent; "Domestic" with 24, or 11.4 per cent; and the rest as shown. Last year "Building trades" also had the highest death rate, with 38 or 14.4 per cent.

Permanent Total Disabilities: There were 75 permanent total disability injuries, classified as follows: "Building trades" had 13; "Trade", "Miscellaneous", and "Transportation, road, etc.", each had 8; "Professional service" had 5; "Domestic", "Textiles", and "Leather" had 4 each; "Iron and steel" and "Clay, glass, and stone" each had 3; "Food", "Paper", "Metals", "Chemicals", and "Extraction of minerals" had 2 each; and "Express, trucking", "Lumber", "Clothing", "Agriculture", and "Others in transportation" each had 1.

Permanent Partial Disabilities: "Iron and steel" had the highest frequency with 343 cases, or 19.9 per cent; followed by "Miscellaneous" with 224, or 13.0 per cent; and "Building trades" with 199, or 11.6 per cent.

Temporary Total Disabilities: The frequency order of this group occurred as printed.

TABLE IV. SEVERITY OF INJURIES, BY INDUSTRIES AND EXTENT OF DISABILITY

This table aims to give a measure of the severity of injuries according to the actual and weighted time loss, the unit of time loss being the unit least given to fluctuating.

The weighting of the temporary total disabilities and permanent partial disabilities is most easily determined by using as the bases of measurement the actual number of days lost as a result of injuries. Previous to July 1, 1937, the permanent partial disabilities were weighted by using for each case an aliquot part of six thousand days proportionate to the degree of disability resulting from the particular bodily impairment.

Under the plan for weighting the other types of injuries the following principles were used:

For each death and permanent total disability, a weight of six thousand days was employed as representing the average working life expectancy. This was determined by the accident experience of several states and some practical modifications based on committee judgment.

Severity of Total Tabulatable Injuries, by Industries
and Extent of Disability

<u>Industries</u>	<u>Totals</u>	<u>Deaths</u>	<u>Disabilities</u>		
			<u>Per- manent Total</u>	<u>Per- manent Partial</u>	<u>Tem- porary Total</u>
Building trades	800,436	210,000	78,000	252,833	259,603
Trade	648,737	132,000	48,000	149,634	319,103
Iron and steel	507,932	84,000	18,000	185,165	220,767
Miscellaneous	487,212	120,000	48,000	126,048	193,164
Domestic & personal serv.	400,327	144,000	24,000	62,860	169,467
Transportation, road, etc.	361,746	150,000	48,000	49,371	114,375
Textiles	285,365	66,000	24,000	75,236	120,129
Professional service	228,761	36,000	30,000	67,082	95,679
Leather	200,622	42,000	24,000	39,891	94,731
Food	180,507	36,000	12,000	46,105	86,402
Express companies	153,717	42,000	6,000	35,581	70,136
Paper	105,655	30,000	12,000	11,319	52,336
Lumber	101,279	6,000	6,000	46,169	43,110
Clay, glass, stone	81,187	36,000	18,000	6,742	20,445
Printing & bookbinding	75,585	24,000	-	25,271	26,314
Clothing	74,369	24,000	6,000	7,782	36,587
Agriculture	70,169	24,000	6,000	7,164	33,005
Minerals	56,672	12,000	12,000	30,000	2,672
Metals	54,391	6,000	12,000	17,805	18,586
Chemicals	45,850	12,000	12,000	6,775	15,075
Liquors	27,038	6,000	-	6,458	14,580
Others in transportation	24,249	-	6,000	9,112	9,137
Water transportation	18,132	12,000	-	273	5,859
Air transportation	7,959	6,000	-	78	1,881
Telephone & telegraph	7,473	-	-	3,101	4,372
Totals	5,005,370	1,260,000	450,000	1,267,855	2,027,515

The following table indicates that under the weighted system used, deaths cover 25.1 per cent of the total time loss, although only 210 out of a total of 59,388 cases were fatal.

Distributed Severity of Injuries

<u>Extent of Disability</u>	<u>Days Lost</u>	<u>Per Cent</u>
Deaths	1,260,000	25.1
Permanent total disabilities	450,000	9.0
Permanent partial disabilities	1,267,855	25.3
Temporary total disabilities	<u>2,027,515</u>	<u>40.6</u>
Totals	5,005,370	100.0

The following table shows the percentage distribution of days and the average days lost per case, by industries.

Percentage Distribution of Lost Days and Average Days Per Case,
by Industries

<u>Industries</u>	<u>Per Cent of Total</u>	<u>Average Days Per Case</u>
Building trades	16.0	132
Trade	13.0	64
Iron and steel	10.1	65
Miscellaneous	9.7	83
Domestic & personal service	8.0	99
Transportation, road, etc.	7.2	100
Textiles	5.7	94
Professional service	4.6	83
Leather	4.0	76
Food	3.6	65
Express companies	3.1	78
Paper	2.1	61
Lumber	2.0	72
Clay, glass, stone	1.6	146
Printing & bookbinding	1.5	101
Clothing	1.5	72
Agriculture	1.4	81
Minerals	1.1	961
Metals	1.1	82
Chemicals	1.0	85
Liquors	0.5	54
Others in transportation	0.5	89
Water transportation	0.4	115
Air transportation	0.2	81
Telephone & telegraph	<u>0.1</u>	<u>64</u>
	100.0	84

A study of the above table indicates that the industry "Minerals" contained the injuries which were of the most severe character, the average days lost per case being 961. This industry had a total of 59 cases with a time loss of 56,672 days. Out of these 2 were fatal cases and carried a combined weighted time loss of 12,000 days.

The average days lost per case for all industries combined was 84 days.

TABLE V. SEX AND AGE OF INJURED IN TOTAL TABULATABLE INJURIES

Sex of Injured The following table indicates that from a total of 59,388 cases, 49,916 or 84.0 per cent occurred among males and 9,472 or 16.0 per cent occurred among females.

Extent of Disability, by Sex

<u>Extent of Disability</u>	<u>Males</u>		<u>Females</u>	
	<u>Number of Cases</u>	<u>Per Cent</u>	<u>Number of Cases</u>	<u>Per Cent</u>
Deaths	201	0.4	9	0.1
Permanent total disabilities	69	0.1	6	0.1
Permanent partial disabilities	1,529	3.1	193	2.0
Temporary total disabilities	48,117	96.4	9,264	97.8
Totals	49,916	100.0	9,472	100.0

An analysis of the above table shows that males sustained 95.7 per cent of the fatal injuries, and that 0.4 per cent of the total injuries to them were fatal. The fatal injuries to women were one-tenth of one per cent of the total sustained by them.

There were 6 permanent total disability injury cases to women this year, as compared with 7 in 1951.

Age The age experience for all years is considered by compressing the number by year intervals into groups sufficient for general explanation.

Distribution of Total Tabulatable Injuries, by Age Period

<u>Age Periods (Years)</u>	<u>Number of Cases</u>	<u>Per Cent</u>
14 and under	70	0.1
15	117	0.2
16	701	1.2
17	997	1.7
18	1,261	2.1
19	1,166	2.0
20 to 24 inclusive	5,628	9.5
25 to 29 "	7,426	12.5
30 to 34 "	7,309	12.3
35 to 39 "	7,344	12.4
40 to 44 "	6,642	11.2
45 to 49 "	5,686	9.6
50 to 54 "	5,125	8.6
55 to 59 "	4,311	7.2
60 to 64 "	3,278	5.5
65 and over	<u>2,327</u>	<u>3.9</u>
Totals	59,388	100.0

No comment on the above table seems necessary except to state that the ages from 14 to 20 are given for the benefit of those interested in minors.

TABLE VI. TOTAL TABULATABLE INJURIES, BY INDUSTRIES AND WAGE GROUPS

No attempt is made in the following table to give the distribution by industries as table VI in the Appendix contains this information.

Distribution of Tabulatable Injuries, by Wage Groups

<u>Wage Groups</u>	<u>Number of Cases</u>	<u>Per Cent of Total</u>	<u>Cumulative Per Cent</u>
Under \$10.00	127	0.2	0.2
\$10.00 to \$11.99	99	0.2	0.4
\$12.00 to \$13.99	141	0.2	0.6
\$14.00 to \$15.99	185	0.3	0.9
\$16.00 to \$17.99	157	0.3	1.2
\$18.00 to \$19.99	254	0.4	1.6
\$20.00 to \$21.00	266	0.4	2.0
\$22.00 to \$23.99	257	0.4	2.4
\$24.00 to \$25.99	460	0.8	3.2
\$26.00 to \$27.99	476	0.8	4.0
\$28.00 to \$29.99	631	1.1	5.1
\$30.00 to \$31.99	1,505	2.5	7.6
\$32.00 to \$33.99	1,172	2.0	9.6
\$34.00 to \$35.99	1,509	2.5	12.1
\$36.00 to \$37.99	1,293	2.2	14.3
\$38.00 to \$39.99	1,204	2.0	16.3
\$40.00 to \$41.99	2,155	3.6	19.9
\$42.00 to \$43.99	1,293	2.2	22.1
\$44.00 to \$45.99	2,316	3.9	26.0
\$46.00 to \$47.99	1,652	2.8	28.8
\$48.00 to \$49.99	1,849	3.1	31.9
\$50.00 to \$51.99	3,213	5.4	37.3
\$52.00 to \$53.99	2,067	3.5	40.8
\$54.00 to \$55.99	2,790	4.7	45.5
\$56.00 to \$57.99	2,167	3.7	49.2
\$58.00 and over	30,150	50.8	100.0
Totals	59,388	100.0	

The following table, in class intervals of \$5.00, is given for the purpose of breaking down the group "\$58.00 and over".

Distribution of Tabulatable Injuries, by Wage Groups

<u>Wage Groups</u>	<u>Number of Cases</u>	<u>Per Cent of Total</u>	<u>Cumulative Per Cent</u>
Under \$10.00	127	0.2	0.2
\$10.00 to \$14.99	295	0.5	0.7
\$15.00 to \$19.99	541	0.9	1.6
\$20.00 to \$24.99	686	1.2	2.8
\$25.00 to \$29.99	1,404	2.4	5.2
\$30.00 to \$34.99	3,340	5.6	10.8
\$35.00 to \$39.99	3,343	5.6	16.4
\$40.00 to \$44.99	4,312	7.3	23.7
\$45.00 to \$49.99	4,953	8.3	32.0
\$50.00 to \$54.99	6,425	10.8	42.8
\$55.00 to \$59.99	5,906	9.9	52.7
\$60.00 to \$64.99	6,231	10.5	63.2
\$65.00 to \$69.99	4,960	8.4	71.6
\$70.00 to \$74.99	4,161	7.0	78.6
\$75.00 to \$79.99	3,348	5.6	84.2
\$80.00 to \$84.99	2,417	4.1	88.3
\$85.00 to \$89.99	1,647	2.8	91.1
\$90.00 to \$94.99	1,384	2.3	93.4
\$95.00 to \$99.99	988	1.7	95.1
\$100.00 to \$104.99	947	1.6	96.7
\$105.00 to \$109.99	533	0.9	97.6
\$110.00 to \$114.99	401	0.7	98.3
\$115.00 to \$119.99	252	0.4	98.7
\$120.00 to \$124.99	233	0.4	99.1
\$125.00 to \$129.99	143	0.2	99.3
\$130.00 and over	411	0.7	100.0
Totals	59,388	100.0	

The maximum weekly compensation rate of \$30.00 would be payable on wages of \$45.00 a week and over.

Distribution of Tabulatable Injuries Under Certain
Compensation Rates, by Wages

<u>Wage Groups</u>	<u>Number of Cases</u>	<u>Per Cent of Total</u>	<u>Compensation Rate</u>
\$ 0.00 to \$17.99	709	1.2	Equal to wages *
\$18.00 to \$27.00	1,438	2.4	\$18.00
\$27.01 to \$44.99	11,901	20.0	2/3 of wages
\$45.00 and over	<u>45,340</u>	<u>76.4</u>	\$30.00
Totals	59,388	100.0	

* The compensation rate is equal to the average weekly wage but not less than ten dollars where the number of normal working hours of the injured employee in a week are fifteen or more.

TABLE VII. LOCATION OF INJURY, BY NATURE OF INJURY

The following table shows the distribution of injuries by location of injury:

Distribution of Tabulatable Injuries, by Location of Injury

<u>Location of Injury</u>	<u>Number of Cases</u>	<u>Per Cent</u>
Upper extremities.	19,573	32.9
Trunk	16,851	28.4
Lower extremities	15,194	25.6
Head	4,075	6.9
Face and neck	1,884	3.2
Body	1,811	3.0
Totals	59,388	100.0

It will be observed that out of 59,388 injuries, 19,573 or 32.9 per cent effected the upper extremities.

From the medical aspect in particular, and for information in general, the following table, which shows the number of tabulatable injuries by location and nature of injury, will prove of interest.

Distribution of Tabulatable Injuries,
by Location and Nature of Injury

<u>Nature of Injury</u>	<u>Head</u>	<u>Face and Neck</u>	<u>Trunk</u>	<u>Upper Extremities</u>	<u>Lower Extremities</u>	<u>Body</u>	<u>Total</u>
Sprains and strains	8	158	13,775	3,068	4,298	29	21,336
Bruises, contusions, abrasions	1,746	378	1,603	3,404	5,079	329	12,539
Cuts, punctures, lacerations	1,051	501	108	6,673	1,736	18	10,087
Fractures	70	129	793	2,115	2,535	4	5,646
All other	424	89	426	1,052	922	694	3,607
Burns and scalds	389	341	70	1,006	453	48	2,307
Occupational	39	232	5	911	68	658	1,913
Amputations or total loss of use	48	-	-	862	36	-	946
Concussions	283	-	3	-	-	-	286
Dislocations	-	1	63	152	41	-	257
Disfigurement	5	52	5	158	13	2	235
Loss of bodily function	3	3	-	172	13	-	191
Shocks, electrical	-	-	-	-	-	29	29
Partial loss of use	9	-	-	-	-	-	9
Totals	4,075	1,884	16,851	19,573	15,194	1,811	59,388

TABLE VIII. LOCATION, BY NATURE OF INJURY AND EXTENT OF DISABILITY

This table shows the tabulatable injuries by nature of injury and duration of disability, including the percentage distribution. The location of injury is not given in this analysis.

Total Tabulatable Injuries, by Nature of Injury and Extent of Disability, including Percentage Distribution

Nature of Injury	Totals	Per Cent	Deaths	Disabilities		
				Permanent Total	Permanent Partial	Temporary Total
Sprains and strains	21,336	35.9	2	4	139	21,191
Bruises, contusions, abrasions	12,539	21.1	3	1	8	12,527
Cuts, punctures, lacerations	10,087	17.0	1	3	10	10,073
Fractures	5,646	9.5	53	12	97	5,484
All Other	3,607	6.1	119	25	46	3,417
Burns and scalds	2,307	3.9	7	-	2	2,298
Occupational	1,913	3.2	9	21	41	1,842
Amputations or total loss of use	946	1.6	3	4	939	-
Concussions	286	0.5	3	5	4	274
Dislocations	257	0.4	-	-	1	256
Disfigurement	235	0.4	-	-	235	-
Loss of bodily function	191	0.3	-	-	191	-
Shocks, electrical	29	0.1	10	-	-	19
Partial loss of use	9	0.- ^a	-	-	9	-
Totals	59,388	100.0	210	75	1,722	57,381

^a Less than one-tenth of one per cent.

TABLE IX. INFECTION, BY NATURE OF INJURY AND EXTENT OF DISABILITY

Infection, by Nature of Injury and Extent of Disability

<u>Nature of Injury</u>	<u>Totals</u>	<u>Deaths</u>	<u>Permanent Total Disabilities</u>	<u>Permanent Partial Disabilities</u>	<u>Temporary Total Disabilities</u>
Cuts, punctures, lacerations	1,026	-	1	3	1,022
Abrasions, bruises, contusions	713	-	-	-	713
All other	153	2	-	3	148
Burns & scalds	97	-	-	-	97
Sprains & strains	13	-	-	2	11
Loss of bodily function	12	-	-	12	-
Fractures	9	-	-	2	7
Amputations or total loss of use	5	-	1	4	-
Occupational diseases	2	-	-	-	2
Totals	2,030	2	2	26	2,000

According to the above table 2,030 cases of infection ensued from injuries. This is 3.4 per cent of the total tabulatable injuries. One out of every 29 cases resulted in an infection.

THE FOLLOWING TABLE SHOWS THE DISTRIBUTION OF TOTAL TABULATABLE OCCUPATIONAL DISEASE CASES BY INDUSTRY AND EXTENT OF DISABILITY

OCCUPATIONAL DISEASES, BY INDUSTRY AND EXTENT OF DISABILITY, JANUARY 1, 1952 to DECEMBER 31, 1952.

(F STANDS FOR FATAL; PT STANDS FOR PERMANENT TOTAL DISABILITY; PP STANDS FOR PERMANENT PARTIAL DISABILITY;
AND TT STANDS FOR TEMPORARY TOTAL DISABILITY)

INDUSTRY	TOTALS				ALL OTHER				AN- THRAX		DERMATITIS			EC- ZE- MA	LEAD POI- SON		POI- SON IVY	TUBER- CULOSIS				GAS			BENZOL POI- SON		CARBON MONOXIDE				TOTAL CASES
	F	PT	PP	TT	F	PT	PP	TT	PP	TT	PT	PP	TT	TT	PP	TT	TT	F	PT	PP	TT	F	PP	TT	F	TT	F	PP	TT		
MISCELLANEOUS.....	3	2	8	293	-	-	-	14	-	-	1	1	214	-	-	3	19	2	1	7	2	-	-	40	1	-	-	-	1	306	
IRON AND STEEL.....	3	2	10	204	-	-	-	10	-	-	-	1	151	-	-	8	7	3	2	8	8	-	1	20	-	-	-	-	-	219	
LEATHER.....	1	-	3	170	-	-	-	11	-	1	-	1	150	-	-	1	1	-	-	2	-	1	-	6	-	-	-	-	-	174	
TRADE.....	-	-	1	165	-	-	-	13	-	-	-	-	91	-	-	-	32	-	-	1	2	-	-	23	-	-	-	-	4	166	
TRANSPORTATION, ROAD	-	3	1	153	-	1	-	5	-	-	-	-	24	-	-	-	112	-	2	1	2	-	-	9	-	-	-	-	1	157	
DOMESTIC SERVICE....	1	-	-	137	-	-	-	4	-	-	-	-	111	-	-	1	12	-	-	-	-	-	8	-	1	1	-	-	-	138	
PROFESSIONAL SERVICE	1	4	9	120	1	-	1	34	-	-	-	-	45	-	-	-	9	-	4	8	27	-	-	5	-	-	-	-	-	134	
TEXTILES.....	-	-	1	113	-	-	-	3	1	1	-	-	98	1	-	3	1	-	-	-	1	-	-	5	-	-	-	-	-	114	
BUILDING.....	-	2	2	98	-	-	-	3	-	-	-	-	35	1	1	3	48	-	2	-	2	-	-	3	-	-	-	1	3	102	
FOOD.....	-	-	1	76	-	-	-	17	-	-	-	-	52	-	-	-	-	-	-	1	2	-	-	4	-	-	-	-	-	77	
CHEMICALS.....	-	1	1	64	-	-	-	6	-	-	-	1	49	-	-	1	-	-	1	-	-	-	8	-	-	-	-	-	-	66	
AGRICULTURE.....	-	-	-	65	-	-	-	1	-	-	-	-	18	-	-	1	44	-	-	-	-	-	1	-	-	-	-	-	-	65	
LUMBER.....	-	1	-	34	-	-	-	5	-	-	1	-	25	-	-	-	1	-	-	-	2	-	-	1	-	-	-	-	-	35	
METALS.....	-	1	-	34	-	-	-	3	-	-	-	-	27	-	-	1	-	-	1	-	1	-	2	-	-	-	-	-	-	35	
PAPER.....	-	-	-	31	-	-	-	4	-	-	-	-	21	-	-	-	3	-	-	-	-	-	3	-	-	-	-	-	-	31	
CLOTHING.....	-	-	-	29	-	-	-	1	-	-	-	-	28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	29	
PRINTING & BOOK-																															
BINDING.....	-	-	-	22	-	-	-	-	-	-	-	-	20	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	22	
CLAY, GLASS, STONE..	-	3	1	9	-	-	-	2	-	-	-	-	6	-	-	-	1	-	3	1	-	-	-	-	-	-	-	-	-	13	
LIQUORS.....	-	-	-	8	-	-	-	1	-	-	-	-	6	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	8	
EXPRESS COMPANIES...	-	-	-	6	-	-	-	-	-	-	-	-	3	-	-	-	1	-	-	-	-	-	1	-	-	-	-	-	-	1	6
MINERALS.....	-	2	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	3	-	-	-	-	-	-	-	-	-	-	5	
TELEPHONE & TELE-																															
GRAPH.....	-	-	-	5	-	-	-	-	-	-	-	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	
WATER TRANSPORTATION	-	-	-	3	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	
OTHER PERSONS IN																															
TRANSPORTATION...	-	-	-	2	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	2	
AIR TRANSPORTATION..	-	-	-	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	
TOTALS	9	21	41	1842	1	1	1	137	1	2	2	4	1184	2	1	23	293	5	18	32	50	1	1	139	1	1	1	1	11	1913	

THIS YEAR "MISCELLANEOUS" HAD THE GREATEST NUMBER OF INJURIES, 306 OR 16.0 PER CENT OF THE TOTAL OCCUPATIONAL DISEASE CASES, AND "DERMATITIS" WAS THE CAUSE OF INJURY IN 216 OF THESE CASES.

THE OCCUPATIONAL DISEASE HAVING THE GREATEST NUMBER OF INJURIES WAS "DERMATITIS" WITH 1,190 CASES OR 62.2 PER CENT OF THE TOTAL OCCUPATIONAL DISEASE CASES.

THE FOLLOWING TABLE SHOWS THE DISTRIBUTION OF OCCUPATIONAL DISEASE CASES INVOLVING TEMPORARY TOTAL DISABILITY, BY INDUSTRY AND EXTENT OF DISABILITY, AND INDICATES THAT "DERMATITIS" CONTAINED THE GREATEST NUMBER OF CASES.

OCCUPATIONAL DISEASES, INVOLVING TEMPORARY TOTAL DISABILITY, BY INDUSTRY AND EXTENT OF DISABILITY,
JANUARY 1, 1952 TO DECEMBER 31, 1952.

INDUSTRY	TOTAL			ALL OTHERS			AN- THRAX	DERM- ATITIS			EC- EZ- MA	LEAD POISON			POISON IVY			TUBER- CULOSIS		GAS			BENZOL POI- SON	CARBON MONOXIDE			TOTAL CASES
BY DAYS	1 TO 7	8 TO 182	183 AND OVER	1 TO 7	8 TO 182	183 AND OVER	8 TO 182	1 TO 7	8 TO 182	183 AND OVER	8 TO 187	1 TO 7	8 TO 182	183 AND OVER	1 TO 7	8 TO 182	183 AND OVER	8 TO 182	183 AND OVER	1 TO 7	8 TO 182	183 AND OVER	8 TO 182	1 TO 7	8 TO 182	183 AND OVER	
MISCELLANEOUS.....	91	184	18	6	7	1	-	50	149	15	-	-	2	1	9	10	-	1	1	26	14	-	-	-	1	-	293
IRON AND STEEL.....	44	143	17	4	5	1	-	25	119	7	-	1	5	2	2	4	1	3	5	12	7	1	-	-	-	-	204
LEATHER.....	50	107	13	5	6	-	1	39	98	13	-	1	-	-	-	1	-	-	-	5	1	-	-	-	-	-	170
TRADE.....	55	104	6	4	8	1	-	24	63	4	-	-	-	-	13	19	-	1	1	13	10	-	-	1	3	-	165
TRANSPORTATION, ROAD.....	86	64	3	3	1	1	-	12	11	1	-	-	-	-	66	46	-	1	1	5	4	-	-	-	1	-	153
DOMESTIC SERVICE.....	27	95	15	-	4	-	-	17	80	14	-	1	-	-	5	7	-	-	-	4	3	1	1	-	-	-	137
PROFESSIONAL SERVICE.....	26	67	27	9	25	-	-	9	31	5	-	-	-	-	5	4	-	5	22	3	2	-	-	-	-	-	120
TEXTILES.....	37	70	6	2	1	-	1	32	60	6	1	-	3	-	1	-	-	1	-	2	3	-	-	-	-	-	113
BUILDING.....	47	49	2	2	1	-	-	13	21	1	1	-	3	-	29	19	-	2	-	2	1	-	-	1	1	1	98
FOOD.....	31	41	4	10	6	1	-	16	34	2	-	-	-	-	-	-	-	1	1	4	-	-	-	1	-	-	76
AGRICULTURE.....	29	35	1	-	1	-	-	8	9	1	-	-	1	-	21	23	-	-	-	-	1	-	-	-	-	-	65
CHEMICALS.....	26	36	2	4	2	-	-	17	30	2	-	-	1	-	-	-	-	-	-	5	3	-	-	-	-	-	64
LUMBER.....	5	29	-	1	4	-	-	3	22	-	-	-	-	-	1	-	-	2	-	-	1	-	-	-	-	-	34
METALS.....	8	24	2	1	1	1	-	5	22	-	-	-	1	-	-	-	-	-	1	2	-	-	-	-	-	-	34
PAPER.....	6	24	1	2	1	1	-	4	17	-	-	-	-	-	-	3	-	-	-	3	-	-	-	-	-	-	31
CLOTHING.....	10	18	1	-	1	-	-	10	17	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	29
PRINTING & BOOKBINDING...	8	13	1	-	-	-	-	7	12	1	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	22
CLAY, GLASS, STONE.....	3	6	-	1	1	-	-	1	5	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	9
LIQUORS.....	2	6	-	-	1	-	-	1	5	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8
EXPRESS COMPANIES.....	4	2	-	-	-	-	-	1	2	-	-	-	-	-	1	-	-	-	-	1	-	-	-	1	-	-	6
TELEPHONE & TELEGRAPH....	1	3	1	-	-	-	-	1	3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5
WATER TRANSPORTATION.....	-	3	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3
OTHER PERSONS IN TRANSPORTATION.....	1	1	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	2
AIR TRANSPORTATION.....	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
TOTALS	597	1125	120	54	76	7	2	296	814	74	2	4	16	3	155	137	1	18	32	84	53	2	1	4	6	1	1842

THE INDUSTRY "MINERALS" DOES NOT APPEAR IN THE ABOVE TABLE SINCE THERE WERE NO CASES OF TEMPORARY TOTAL DISABILITY.

TABLE X. CAUSES OF INJURIES, BY EXTENT OF DISABILITY

This table presents the accident experience with such detail as resources permit, showing by detailed causes the relative extent of different types of injuries due to assigned causes. The table also shows the weighted severity of injuries, based on time loss.

For each cause enumerated, the following information is given:

Number of Tabulatable injuries:	Days lost due to:
Total cases	Total cases
Deaths	Deaths
Permanent total disabilities	Permanent total disabilities
Permanent partial disabilities	Permanent partial disabilities
Temporary total disabilities	Temporary total disabilities
7 days and under	7 days and under
1 to 2 weeks	1 to 2 weeks
2 to 3 weeks	2 to 3 weeks
over 3 weeks	over 3 weeks

Condensed information of the detailed table follows:

Total Tabulatable Injuries, by Cause of Injury and Extent of Disability

Cause of Injury	Totals	Deaths	Disabilities		
			Permanent Total	Permanent Partial	Temporary Total
Handling of objects	20,817	33	8	328	20,448
Falls of persons	11,281	29	21	150	11,081
Machinery	5,652	14	6	896	4,736
Stepping on or striking against objects	4,965	4	3	40	4,918
Miscellaneous	3,930	58	4	61	3,807
Hand tools	2,788	2	3	56	2,727
Vehicles	2,727	36	5	41	2,645
Falling objects not handled by employee	2,570	6	4	48	2,512
Explosions	2,558	19	-	61	2,478
Occupational diseases	1,913	9	21	41	1,842
Animals	187	-	-	-	187
Totals	59,388	210	75	1,722	57,381

The above table, in condensed form, shows for each printed cause group the total number of injuries and the distribution by extent of the resulting disability.

Distribution of Causes, by Per Cent

<u>Cause of Injury</u>	<u>Totals</u>	<u>Deaths</u>	<u>Disabilities</u>		
			<u>Permanent Total</u>	<u>Permanent Partial</u>	<u>Temporary Total</u>
Handling of objects	35.1	15.7	10.7	19.0	35.6
Falls of persons	19.0	13.8	28.0	8.7	19.3
Machinery	9.5	6.7	8.0	52.1	8.3
Stepping on or striking against objects	8.4	1.9	4.0	2.3	8.6
Miscellaneous	6.6	27.6	5.3	3.5	6.6
Hand tools	4.7	1.0	4.0	3.3	4.8
Vehicles	4.6	17.1	6.7	2.4	4.6
Falling objects not handled by employee	4.3	2.9	5.3	2.8	4.4
Explosions	4.3	9.0	-	3.5	4.3
Occupational diseases	3.2	4.3	28.0	2.4	3.2
Animals	- .3	-	-	-	0.3
Totals	100.0	100.0	100.0	100.0	100.0

The causes which continue to have the highest number of accidents are "Handling of objects", with 35.1 per cent, and "Falls of persons" with 19.0 per cent.

Distribution of Causes, by Resultant Days Lost

<u>Cause of Injury</u>	<u>Totals</u>	<u>Deaths</u>	<u>Disabilities</u>		
			<u>Permanent Total</u>	<u>Permanent Partial</u>	<u>Temporary Total</u>
Handling of objects	1,322,320	198,000	48,000	354,619	721,701
Falls of persons	1,169,734	174,000	126,000	352,582	517,152
Miscellaneous	546,910	348,000	24,000	54,129	120,781
Machinery	464,130	84,000	36,000	195,937	148,193
Vehicles	424,759	216,000	30,000	67,604	111,155
Occupational diseases	400,317	54,000	126,000	123,000	97,317
Falling objects not handled by employee	192,396	36,000	24,000	46,318	86,078
Stepping on or strik- ing against objects	189,594	24,000	18,000	29,334	118,260
Explosions	182,808	114,000	-	18,899	49,909
Hand tools	109,566	12,000	18,000	25,433	54,133
Animals	2,836	-	-	-	2,836
Totals	5,005,370	1,260,000	450,000	1,267,855	2,027,515

As indicated above the most serious cause of injury as measured in terms of time loss, is "Handling of objects", with 26.4 per cent of the total. The estimated time loss on this account, as shown by the above table, is 1,322,320 days or 236,885 days less than last year.

Average Time Loss Per Case, by Principal Causes

<u>Cause of Injury</u>	<u>Per Cent of Total</u>	<u>Average Days Per Case</u>
Handling of objects	26.4	63
Falls of persons	23.4	104
Miscellaneous	10.9	139
Machinery	9.3	82
Vehicles	8.5	156
Occupational diseases	8.0	209
Falling objects not handled by employee	3.8	75
Stepping on or striking against object	3.8	38
Explosions	3.6	71
Hand tools	2.2	39
Animals	<u>0.1</u>	<u>15</u>
Totals	100.0	84

In considering these figures, the fact should be remembered that the units cover all cases, including deaths, permanent total, permanent partial, and temporary total disabilities. If more detailed analysis is desired to meet particular questions, reference should be made to the appendix under this table heading.

TABLE XI. MACHINERY, FREQUENCY OF INJURIES, BY MANNER OF OCCURRENCE
AND BY PART OF MACHINE

The number of machine accidents, according to the cause and the percentage of the total, is given in the following table:

Machine Accidents, by Manner of Occurrence

<u>Manner of Occurrence</u>	<u>Number of Cases</u>	<u>Per Cent of Total</u>
Starting, stopping, or operating machine	3,164	56.0
Adjusting machine, tool, or work	737	13.0
Flying objects	680	12.0
All other	632	11.2
Cleaning or oiling machine	225	4.0
Breaking of machine, tool, or work	139	2.5
Repairing machine	<u>75</u>	<u>1.3</u>
Totals	5,652	100.0

Of the 5,652 accidents, 3,164 or 56.0 per cent occurred while "starting, stopping, or operating machine", 1,978 occurring at the "point of operation".

Further analysis of the table is given in the following summary which shows the part of the machine on which the injury occurred.

Machine Accident, by Part of Machine

<u>Part of Machine</u>	<u>Number of Cases</u>	<u>Per Cent of Total</u>
Point of operation	2,754	48.7
All other	2,039	36.1
Gears	329	5.8
Belts	265	4.7
Cranks or eccentrics	127	2.2
Flywheels	65	1.2
Set screws, keys, bolts	38	0.7
Counterweights	<u>35</u>	<u>0.6</u>
Totals	5,652	100.0

TABLE XII. CONDITION OF DEPENDENTS IN UNINSURED FATAL CASES

This table shows in detail, when the information was obtainable, the industry, occupation, age, wage, amount payable under the Act in analogous cases, dependents, settlement, and financial condition of the family. Analysis of the facts in the table is not made here, but will be found in a separate chapter devoted to the subject under this heading.

TABLE XIII. CONJUGAL CONDITION AND DEPENDENCY IN CASES OF FATAL INJURIES

The conjugal condition of the employees fatally injured and the extent of dependency according to the number of persons dependent are considered in the following analysis:

Conjugal Condition in Fatal Cases

<u>Condition</u>	<u>Number of Cases</u>	<u>Per Cent of Total</u>
Single	32	15.2
Married	169	80.5
Widowed	7	3.3
Divorced	<u>2</u>	<u>1.0</u>
Totals	210	100.0

Of the 32 cases in which the employee was single, 14 had total dependents, 5 had partial dependents, and 13 had no dependents.

Total dependency was involved in 168 of the cases where the employee was married, there being only 1 case of partial dependency.

One of the seven widowed employees left partial dependents, while the remaining six left no dependents.

Both of the divorced employees left total dependents.

A total of 344 dependents were left in the 210 fatal cases, 336 being totally dependent and 8 partially dependent.

TABLE XIV. SPECIFIC INJURY CASES, BY AGE OF PERSONS INJURED

This table indicates that there were 951 cases of specific injuries. In 172 cases, of 18.1 per cent, the employees were more than 55 years of age. There was one case in which the employee was under 16 years of age. The number of specific injuries to employees under the age of 18 has decreased from 25 in 1951 to 15 in 1952.

<u>Type of Injury</u>	<u>Number of Cases</u>	<u>Per Cent</u>
One finger or thumb, minor hand; or middle, ring, or little finger major hand; or 1 phalange of major index finger	685	72.2
One eye	47	5.0
Major thumb, one phalange	44	4.6
Major index finger, 2 or 3 phalanges	38	4.0
Two or more fingers on major or minor hand; or thumb and fingers on minor hand, two phalanges	30	3.2
Major index finger, 2 or 3 phalanges and one or more fingers on same hand	30	3.2
Major thumb, one phalange and one or more fingers	9	1.0
Partial loss of vision	8	0.8
Major arm below elbow	8	0.8
Great toe, one phalange	8	0.8
One foot, or one leg, below knee	7	0.7
Lesser toe, entire toe	6	0.6
One leg above knee	5	0.5
Major thumb, two phalanges	5	0.5
Minor hand, or minor arm below elbow	4	0.4
Two or more toes on one foot	4	0.4
Minor arm above elbow	3	0.3
Both feet or legs	2	0.2
Major thumb, 2 phalanges, and 1 or more fingers	2	0.2
Hearing, one ear	1	0.1
One hand or arm and one foot or leg	1	0.1
Two or more fingers, or thumb and fingers on both hands	1	0.1
One finger or thumb on 1 hand and two or more fingers on other hand	1	0.1
One finger or thumb on 1 hand and 1 finger or thumb on other hand	1	0.1
Lesser toe, one phalange	1	0.1
Totals	951	100.0

The group "one finger or thumb, minor hand; or middle, ring, or little finger, major hand; or 1 phalange of major index finger" is the largest numerically of all the groups classified in this table. Included in this classification are all finger injuries (except those occurring to the major thumb and to two or more phalanges of the major index finger) in which there is a loss either by amputation or the equivalent loss of use of less than two phalanges of one or more fingers.

TABLE XV. SPECIFIC INJURY CASES, BY CAUSES

Of the 951 specific injury cases, 693, or 72.9 per cent occurred on machinery.

Of the 685 injuries to "one finger or thumb, minor hand; or middle, ring, or little finger, major hand; or 1 phalange of major index finger", 521 were due to machinery accidents, 302, or 58.0 per cent, occurring at the "Point of operation".

Percentage Distribution of Specific Injury Cases by Causes

<u>Cause of Injury</u>	<u>Number of Cases</u>	<u>Per Cent of Total</u>
Machinery	693	72.9
Handling of objects	106	11.2
Hand tools	56	5.9
Miscellaneous	28	2.9
Falling objects	27	2.8
Vehicles	16	1.7
Falls of persons	14	1.5
Explosions, fires, etc.	6	0.6
Stepping on, or striking against objects	5	0.5
Totals	951	100.0

The following table shows the cause of injury in specific eye cases:

Cause of Injury in Specific Eye Cases

<u>Cause of Injury</u>	<u>Number of Cases</u>
Hand tools	23
Machinery	9
Falls of persons	7
Miscellaneous	7
Falling objects not handled by employee	5
Vehicles	2
Explosions, fires, etc.	2
TOTAL	55

The above includes 8 cases of permanent partial reduction of vision, of which 3 occurred in the use of hand tools, vehicles, and explosions, fires, etc., had 2 cases each, and 1 case occurred in the operation of machinery.

THE FOLLOWING TABLE SHOWS FOR THE PERIODS INDICATED THE NUMBER OF NON-FATAL CASES IN WHICH THE MAXIMUM AMOUNT OF COMPENSATION WAS PAID UNDER § 34, THE YEAR IN WHICH THE ACCIDENT OCCURRED, AND THE TYPE OF DISABILITY INCURRED.

PERIOD IN WHICH COMPENSATION ENDED
AND TYPE OF COMPENSATION PAID

PERIOD IN WHICH ACCIDENT OCCURRED

YEARS ENDING DECEMBER 31 *

YEAR ENDING JUNE 30, 1934
TO DECEMBER 31, 1949

	1918 TO 1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	TOTAL
TOTAL ONLY	513	20	19	30	39	51	41	34	-	-	-	-	747
TOTAL AND PARTIAL	198	4	4	11	15	19	15	9	-	-	-	-	275
TOTAL AND SPECIFIC	179	9	7	7	10	16	17	15	-	1	-	-	261
TOTAL, PARTIAL AND SPECIFIC	114	-	-	2	3	4	4	1	-	-	-	-	128
PARTIAL ONLY	3	1	-	-	1	-	-	1	-	-	-	-	6
TOTALS	1,007	34	30	50	68	90	77	60	-	1	-	-	1,417

YEAR ENDING DECEMBER 31, 1950

TOTAL ONLY	2	-	1	-	1	3	7	14	2	-	3	-	33
TOTAL AND PARTIAL	2	-	1	-	3	4	10	18	1	-	-	-	39
TOTAL AND SPECIFIC	-	-	-	-	-	-	2	3	1	-	-	-	6
TOTAL, PARTIAL, AND SPECIFIC	-	-	-	-	2	2	2	1	-	-	-	-	7
PARTIAL ONLY	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTALS	4	-	2	-	6	9	21	36	4	-	3	-	85

YEAR ENDING DECEMBER 31, 1951

TOTAL ONLY	-	-	-	-	-	4	2	2	5	-	-	-	13
TOTAL AND PARTIAL	-	-	-	1	3	1	4	5	1	-	-	-	15
TOTAL AND SPECIFIC	-	-	-	-	-	1	-	1	1	-	-	-	3
TOTAL, PARTIAL, AND SPECIFIC	1	-	-	-	-	1	1	-	-	-	-	-	3
PARTIAL ONLY	-	-	-	-	-	-	1	-	-	-	-	-	1
TOTALS	1	-	-	1	3	7	8	8	7	-	-	-	35

YEAR ENDING DECEMBER 31, 1952

TOTAL ONLY	-	-	-	-	2	1	1	8	18	2	2	2	36
TOTAL AND PARTIAL	-	-	1	1	-	-	4	4	2	-	-	-	12
TOTAL AND SPECIFIC	-	-	-	-	-	-	1	1	3	1	1	-	12
TOTAL, PARTIAL, AND SPECIFIC	-	-	-	-	-	1	-	1	1	1	-	-	4
PARTIAL ONLY	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTALS	-	-	1	1	2	2	6	14	29	4	3	2	64

GRAND TOTALS

1,012 34 33 52 79 108 112 118 40 5 6 2 1,601

* PREVIOUS TO JULY 1, 1938, THE FISCAL YEAR ENDED ON JUNE 30TH.

Maximum Payment Cases, by Type of Disability and Percentage Distribution
July 1, 1933 to December 31, 1952

<u>Type of Disability</u>	<u>Number of Cases</u>	<u>Per Cent</u>
Total only	829	51.8
Total and Partial	341	21.3
Total and Specific	282	17.6
Total, Partial, and Specific	142	8.9
Partial only	<u>7</u>	<u>0.4</u>
Totals	1,601	100.0

During the nineteen and one-half year period covered by the above table, there were 1,601 non-fatal cases in which the maximum compensation payable under ss. 34 and/or ss. 35 of Workmen's Compensation Act was paid. In 1,151 of these cases the employees were still receiving total disability compensation at the time the maximum was reached.

Of the 1,601 maximum payment cases, 752 occurred after September 19, 1935, the date upon which section 34a became effective. Under this section the employees in these cases would have rights to disability compensation for life if they prove that they are permanently disabled. The present status of these cases is as follows:

Status of Possible s.34A Cases

<u>Status of Cases</u>	<u>Number of Cases</u>
S.34a payments made	322
S.34a lump sum settlement made	130
S.34a claim dismissed	27
S.34a claim withdrawn	3
Employee died from causes not due to injury	15
Employee retired on pension	11
Employee returned to work	41
No further information available; no action taken by employee	<u>203</u>
Total	752

Of the 322 cases on which S.34a weekly payments were made, 2 employees have returned to work; 11 have received lump sum settlements; in 2 cases payments were discontinued by the Board; 43 employees have died; and payments are still being made on 264 cases.

The following table shows the type of injury in cases where payments under s.34A were made. Injuries which resulted in the amputation or loss of use of a member of the body are classified according to the dismemberment.

Maximum Payment Cases in Which s.34A Weekly Payments Were Made

<u>Type of Injury</u>	<u>Number of Cases</u>
Head, fractures	8
Head, all other	17
One eye, amputation or loss of vision	16*
Both eyes, amputation or loss of vision	2
Trunk, fractures or dislocations	38
Trunk, all other	51
One hand or arm, amputation or loss of use	15
Both hands and arms, amputation or loss of use	4
One hand or arm, all other	11
Both hands or arms, all other	3
One foot or leg, amputation or loss of use	14**
Both feet or legs, amputation or loss of use	15***
One foot or leg, all other	44
Both feet or legs, all other	7
Both arms and legs, amputation or loss of use	2
Arm and leg, amputation or loss of use	3
Arm and leg, all other	5
Multiple fractures	11
Mercury poisoning	2
Pulmonary tuberculosis, including silicosis, pneumoconiosis	30
Other occupational diseases	6
All other	<u>18****</u>
Total	322

* Includes 8 cases of previous loss of sight in other eye.

** Includes 1 case of previous loss of sight in one eye and serious back injuries.

*** Includes 1 case of previous loss of left hand.

**** Includes 2 cases involving heart conditions.

Maximum Compensation Cases in Which the Last Payment was Made During the
 Year January 1, 1952 to December 31, 1952, by Location
 and Nature of Injury and by Type of Disability

<u>Location and Nature of Injury</u>	<u>Type of Disability</u>				<u>Total Cases</u>
	<u>Total only</u>	<u>Total and Partial</u>	<u>Total and Specific</u>	<u>Total, Partial & Specific</u>	
<u>Abrasions, contusions, bruises</u>	2	-	-	-	2
Trunk	1	-	-	-	1
Lower extremities	1	-	-	-	1
<u>Burns</u>	-	-	2	-	2
Upper extremities	-	-	2	-	2
<u>Concussion</u>	1	-	-	-	1
Head	1	-	-	-	1
<u>Cuts, punctures, lacerations</u>	-	1	-	-	1
Upper extremities	-	1	-	-	1
<u>Fractures</u>	14	5	-	1	20
Lower extremities	6	4	-	-	10
Trunk	5	1	-	-	6
Head	3	-	-	-	3
Upper extremities	-	-	-	1	1
<u>Sprains and strains</u>	7	7	-	-	14
Trunk	6	6	-	-	12
Upper extremities	1	1	-	-	2
<u>All other</u>	2	-	-	-	2
Body constitutional	2	-	-	-	2
<u>Amputation or loss of use</u>	-	-	11	2	13
Upper extremities	-	-	7	1	8
Lower extremities	-	-	3	1	4
Head (eye)	-	-	1	-	1
<u>Occupational</u>	8	1	-	-	9
Constitutional	6	-	-	-	6
Body general	2	1	-	-	3
Totals	34	14	13	3	64

Maximum Payment Cases, by Age at End of Compensation Period

January 1, 1952 to December 31, 1952

<u>Age Periods</u>	<u>Number of cases</u>	<u>Per Cent</u>
20 to 24 inclusive	2	3.1
25 to 29 "	-	-
30 to 34 "	2	3.1
35 to 39 "	3	4.7
40 to 44 "	12	18.7
45 to 49 "	4	6.2
50 to 54 "	1	1.6
55 to 59 "	6	9.4
60 to 64 "	4	6.2
65 to 69 "	14	22.0
70 to 74 "	13	20.3
75 to 79 "	2	3.1
80 to 84 "	<u>1</u>	<u>1.6</u>
Totals	64	100.0

DEPENDENCY IN FATAL INJURIES WHERE EMPLOYER WAS
NOT INSURED UNDER THE WORKMEN'S COMPENSATION ACT.

From January 1, 1952 to December 31, 1952, one report of a fatal injury to an employee of a non-insured employer was filed with the Industrial Accident Board.

In connection with this case, the following information is recorded as of April 1, 1955.

The employee in this case was a single male, aged 59 years. He was employed as a truck driver and general handy man at a wage of ninety cents per hour. There were only two employees, so insurance was not compulsory. There were no dependents. Had the employer been insured, \$500.00 would have been paid for funeral expenses, \$500.00 under Section 65, and \$500.00 under Section 65N of the Act, making a total payment of \$1,500.00.

The Department has no information as to any possible settlement being made in the above case.

THE MEDICAL SECTION

Insurers, self-insurers, and the various governmental units (excluding the Commonwealth of Massachusetts) reported payments for medical and hospital services on injuries occurring during the period January 1, 1952 to December 31, 1952, in the sum of \$10,994,920.08. This represents 31.0 per cent of the total benefits for the year. During this period 179,222 employees were furnished either medical or hospital treatment or both.

Impartial physicians are appointed by the Board. During the year covered by this report \$57,084.20 was spent for 3,408 impartial examinations and for 655 hospital records which the Board obtained.

The medical work of the Board has been administered from the viewpoint that employees are entitled to adequate medical and hospital treatment, but that the cost of such treatment should be reasonable.

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